**COURSE OUTLINE**

1. **GENERAL**

|  |  |
| --- | --- |
| **SCHOOL** | School of Health Sciences |
| **ACADEMIC UNIT** | Faculty of Medicine |
| **LEVEL OF STUDIES** | Undergraduate |
| **COURSE CODE** | **ΙΑΕ814** | **SEMESTER** | **8th**  |
| **COURSE TITLE** | **Clinical Nephrology: from theory to practice** |
| **INDEPENDENT TEACHING ACTIVITIES** *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits* | **WEEKLY TEACHING HOURS** | **CREDITS** |
| Lectures and laboratory exercises | 2 | 2 |
|  |  |  |
|  |  |  |
| *Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (4).* |  |  |
| **COURSE TYPE***general background, special background, specialised general knowledge, skills development* | Special background |
| **PREREQUISITE COURSES:** | No |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | Greek |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | No |
| **COURSE WEBSITE (URL)** | <https://ecourse.uoi.gr/enrol/index.php?id=4154>  |

1. **LEARNING OUTCOMES**

|  |
| --- |
| **Learning outcomes** |
| *The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.**Consult Appendix A* * *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
* *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
* *Guidelines for writing Learning Outcomes*
 |
| **Course Description:** The course covers the principles of clinical nephrology, including training in the diagnosis, management, and treatment of kidney diseases, with an emphasis on clinical cases and practical training in laboratory techniques and interventional methods.**Teaching Methods and Outcomes:** The lessons include lectures, practical student exercises [if the number of students is the maximum that have been reported to be accepted (16 students), probably they will be divided into two groups) in microscopic examination of urine, basic principles of preparation and examination of histological samples of kidney tissue, interventional methods that are part of clinical nephrology such as kidney biopsy and central venous catheter placement, as well as the execution of literature reviews by the students related to the course content.Training hours per student: 26Semester: 8th ECTS: 2 |
| **General Competences**  |
| *Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?* |
| *Search for, analysis and synthesis of data and information, with the use of the necessary technology* *Adapting to new situations* *Decision-making* *Working independently* *Team work**Working in an international environment* *Working in an interdisciplinary environment* *Production of new research ideas*  | *Project planning and management* *Respect for difference and multiculturalism* *Respect for the natural environment* *Showing social, professional and ethical responsibility and sensitivity to gender issues* *Criticism and self-criticism* *Production of free, creative and inductive thinking**……**Others…**…….* |
| Working independentlyTeamworkWorking in an interdisciplinary environment Production of new research ideasDecision makingAdaptation to new situations |

1. **SYLLABUS**

|  |
| --- |
| **Course Content:**1. Introduction to Nephrology - clinical cases
2. General urinalysis - microscopic examination of urine (theory and lab)
3. Imaging and biopsy of the kidney (theory and lab)
4. Alternative approaches to glomerular diseases
5. Nephrological emergencies and critical care
6. Genetic diseases affecting the kidneys in children
7. Genetic diseases affecting the kidneys in adults
8. Chronic Kidney Disease: patient management, complication managment, and preparation for kidney replacement therapy.
9. The multidisciplinary team in managing patients with kidney disease
10. Renal replacement therapies – Hemodialysis (lab – theory)
11. Renal replacement therapies – Peritoneal Dialysis (lab – theory)
12. Kidney transplantation
13. Basic research and clinical studies in Nephrology

RECOMMENDED Faculty 1. Evangelia Dounoussi, Assoc. Professor of Nephrology with an emphasis on Transplantation (Scientific responsible of the course)2. Eleni Stamellou, Postdoctoral Researcher in Nephrology UOI & elected faculty member, Tenured Assistant Professor of Nephrology at the Department of Medicine UOI3. Anastasios Foudoglou, Nephrologist, Doctoral Candidate and University Scholar of Nephrology, School of Health Sciences, UOI4. Aikaterini Siomou, Prof. of Pediatrics - Nephrology, School of Health Sciences, UOI5. Anila Duni, Nephrologist, Doctoral Candidate of Nephrology, School of Health Sciences, UOI6. Vasilios Tatsis, Consultant Transplant Surgeon & Scientific Repsonsible of the elected Course "Organ Transplantation" School of Health Sciences, UOI7. PhD candidate of the Nephrology Dept, School of Health Sciences, UOI**Textbooks**ΤΙΤΛΟΣ : ΕΓΧΕΙΡΙΔΙΟ ΝΕΦΡΙΚΩΝ ΠΑΘΗΣΕΩΝ PRIMERΣυγγράφεις Scott J. Gilbert, Daniel E. WeinerΚωδικός Βιβλίου στον Ευδοξο: 133024047, ISBN : 9786185835064Αριθμός Έκδοσης 8η Αγγλική – 2η ΕλληνικήΕκδόσεις ΡΟΤΟΝΤΑΔιαθέτης (Εκδότης) ΧΑΒΑΛΕΣ – ΧΑΤΖΗΣΥΜΕΩΝ Κ ΟΕ |

1. **TEACHING and LEARNING METHODS - EVALUATION**

|  |  |
| --- | --- |
| **DELIVERY***Face-to-face, Distance learning, etc.* | Physical presence.Clinical practice of students at the Nephrology Clinic (interventional procedures room, hemodialysis unit, peritoneal dialysis unit).  |
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY** *Use of ICT in teaching, laboratory education, communication with students* | Use of computers and video projectors in lectures and assignments given to students for presentations on topics related to the subject matter of the course. |
| **TEACHING METHODS***The manner and methods of teaching are described in detail.**Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.**The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS* |

|  |  |
| --- | --- |
| ***Activity*** | ***Workload of each students group***  |
| Lectures | 22 |
| Practical exercices | 4 |
| Project | 12 |
| Essay writing | 8 |
| Study hours | 14 |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Total | ***60*** |

 |
| **STUDENT PERFORMANCE EVALUATION***Description of the evaluation procedure**Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other**Specifically-defined evaluation criteria are given, and if and where they are accessible to students.* | Methods of evaluation: Written examination: multiple choice questionnaires and short-answer questionsPresentation of prespecified relevant topic |

1. **ATTACHED BIBLIOGRAPHY**

*Teaching - study material*

ΤΙΤΛΟΣ : ΕΓΧΕΙΡΙΔΙΟ ΝΕΦΡΙΚΩΝ ΠΑΘΗΣΕΩΝ PRIMER

Συγγράφεις Scott J. Gilbert, Daniel E. Weiner

Κωδικός Βιβλίου στον Ευδοξο: 133024047, ISBN : 9786185835064

Αριθμός Έκδοσης 8η Αγγλική – 2η Ελληνική

Εκδόσεις ΡΟΤΟΝΤΑ

Διαθέτης (Εκδότης) ΧΑΒΑΛΕΣ – ΧΑΤΖΗΣΥΜΕΩΝ Κ ΟΕ